



Main

| | |
|--|-------------------------------|
| Range of product | Harmony K |
| Product or component type | Cam switch body |
| Component name | K1 |
| [I _{th}] conventional free air thermal current | 12 A |
| Sub-assembly composition | Contact blocks + fixing plate |
| Cam switch function | BCD encoded output switch |
| Off position | With Off position |
| Switching positions | Right: 0° - 45° - 90° - 135° |
| Product mounting | Front mounting |
| Fixing mode | Ø 22 mm hole |
| Bezel material | Plastic |

Complementary

| | |
|---|---|
| Number of decimal | 3 |
| Switching angle | 45° |
| [U _i] rated insulation voltage | 690 V degree of pollution 3 conforming to IEC 60947-1 |
| [I _{the}] conventional enclosed thermal current | 10 A |
| Rated operational power in W | 8300 W AC-21 / 400 V 3 phases conforming to IEC 947-3 600 W AC-3 / 230 V 1 phase conforming to IEC 947-3 4800 W AC-21 / 230 V 3 phases conforming to IEC 947-3 2200 W AC-23A / 690 V 3 phases conforming to IEC 947-3 2200 W AC-23A / 500 V 3 phases conforming to IEC 947-3 2200 W AC-23A / 400 V 3 phases conforming to IEC 947-3 1500 W AC-3 / 690 V 3 phases conforming to IEC 947-3 1500 W AC-3 / 500 V 3 phases conforming to IEC 947-3 1500 W AC-3 / 400 V 3 phases conforming to IEC 947-3 1500 W AC-3 / 400 V 1 phase conforming to IEC 947-3 1500 W AC-23A / 230 V 3 phases conforming to IEC 947-3 1100 W AC-3 / 230 V 3 phases conforming to IEC 947-3 10500 W AC-21 / 500 - 660 V 3 phases conforming to IEC 947-3 |
| [I _e] rated operational current AC | 5.6 A at 230 V AC-23A 3 phases conforming to IEC 947-3 4.8 A at 400 V AC-23A 3 phases conforming to IEC 947-3 4.6 A at 230 V AC-3 3 phases conforming to IEC 947-3 3.8 A at 500 V AC-23A 3 phases conforming to IEC 947-3 3.3 A at 400 V AC-3 3 phases conforming to IEC 947-3 2.8 A at 690 V AC-23A 3 phases conforming to IEC 947-3 2.8 A at 500 V AC-3 3 phases conforming to IEC 947-3 1.8 A at 690 V AC-3 3 phases conforming to IEC 947-3 3 A at 230 V AC-15 conforming to IEC 947-5-1 2 A at 400 V AC-15 conforming to IEC 947-5-1 1 A at 500 V AC-15 conforming to IEC 947-5-1 |
| Electrical durability | 500000 cycles AC-3 500000 cycles AC-23 1000000 cycles AC-21 1000000 cycles AC-15 |
| Operating rate | 8.333 cyc/mn AC-15 2.5 cyc/mn AC-3 2.5 cyc/mn AC-23 2.5 cyc/mn AC-21 |
| Short-circuit current | 10000 A |
| Short circuit protection | 16 A by cartridge fuse, type gG |
| [U _{imp}] rated impulse withstand voltage | 6 kV conforming to IEC 947-1 4 kV in isolating function |
| Contacts operation | Slow-break |

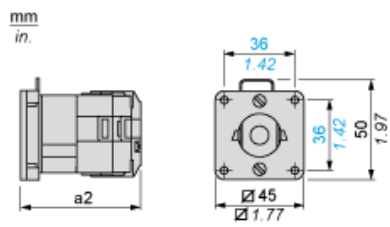
| | |
|-----------------------|---|
| Positive opening | With |
| Electrical connection | Captive screw clamp terminals solid, 1 x 2.5 mm ² Captive screw clamp terminals flexible, 2 x 1.5 mm ² |
| Mechanical durability | 1000000 cycles |
| Product weight | 0.085 kg |

Environment

| | |
|--|--|
| Standards | IEC 60947-5-1 for control circuit IEC 60947-3 for power circuit EN 60947-5-1 for control circuit EN 60947-3 for power circuit CENELEC EN 50013 |
| Product certifications | UL 240 V 0.33 hp 1 phase 2 -pole(s) UL 240 V 1 hp 3 phases CSA 240 V 3 hp 3 phases 2 -pole(s) CSA 240 V 1 hp 1 phase |
| Protective treatment | TC |
| Ambient air temperature for operation | -25...55 °C |
| Ambient air temperature for storage | -40...70 °C |
| Shock resistance | 30 gn conforming to IEC 68-2-27 |
| Vibration resistance | 5 gn, 10...150 Hz conforming to IEC 68-2-6 |
| Class of protection against electric shock | Class II conforming to NF C 20-030 Class II conforming to IEC 536 |

Body with Plastic Base

Front Mounting by $\varnothing 22$ mm/0.87 in. Hole

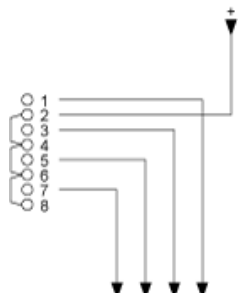


a2 49 mm/1.93 in.

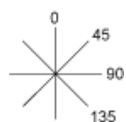
Link Positions (Factory Mounted)

Diagram for 1 to 12-decimal BCD Encoded Output Switches

Select the maximum number of decimals according to the product characteristics.



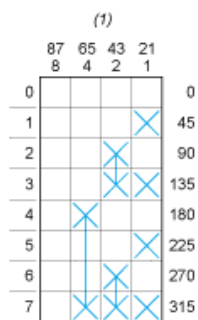
Angular Position of Switch



Switching Program

Diagram for 1 to 7-decimal BCD Encoded Output Switches

Select the maximum number of decimals according to the product characteristics.



(1) Contact marking value

Convention Used for Switching Program Representation

- Contact closed
- Contact closed in 2 positions and maintained between the 2 positions
- Sealed assembly for auto-maintain control
- Overlapping contacts
- Spring return position: for a switching angle of 90°, spring return is over 30° after the last position (for a maximum of 3 simultaneous contacts).

Example:

